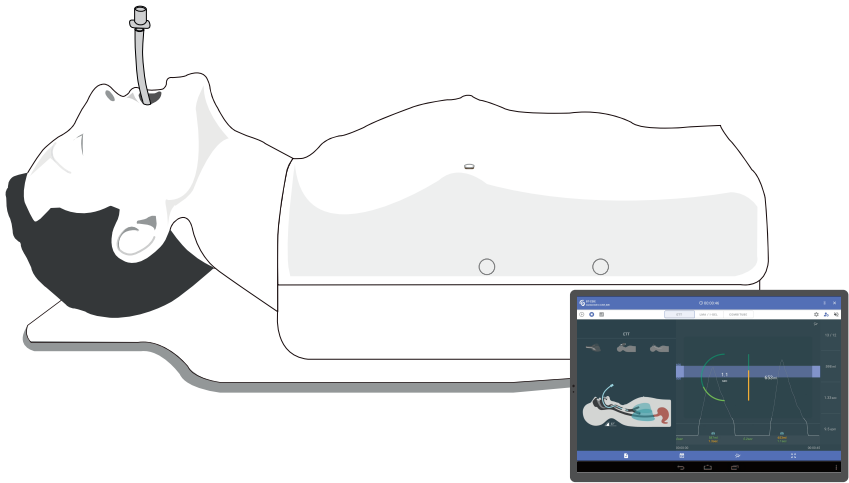


BT-CSIE

Airway Management Simulator

USER'S GUIDE



S/W User Guide



English

Product Information

Product Name	Airway Management Simulator
Model Name	BT-CSIE
Manufacturer	BT Inc.
Country of Origin	Republic of Korea
Certification	

(Contains FCC ID : S7A-IW05)

Product Specification

Dimensions	700 X 300 X 240mm
Weight	8.5kg
Power Converter	Input AC100-240~, 50/60Hz, 0.4A Output DC 12V, 1.5A
Battery	LR6 - 8개(AA 타입, 1.5V)

Customer Service

Website	www.btinc.co.kr
Address	A-313, Samsung Techno-valley, 140, Tongil-ro, Deogyang-Gu, Goyang-Si, Gyeonggi-do, 10594, Republic of Korea
Telephone	+82-2-2038-2903
E-mail	bt@btinc.co.kr



Cautions for battery disposal

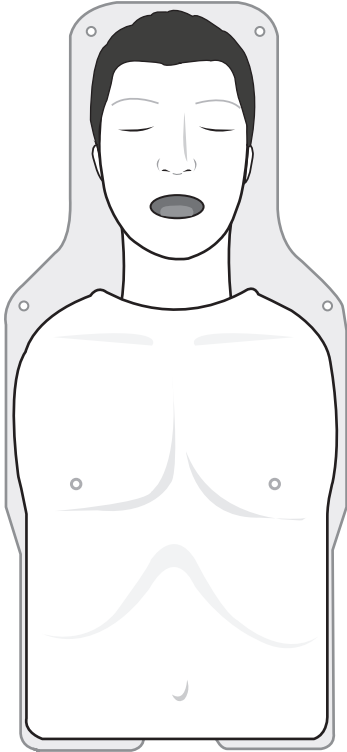
* Please follow the regulations of corresponding area for the disposal of used batteries.

Cautions

Please read it carefully to ensure correct usage and user's safety through understanding of the product.

- Ⓢ Do not use the product for other purposes described in the manual.
- Ⓢ Do not use the product for other purposes described in this manual.
- Ⓢ If you disassemble or modify the product without any permission by BT Inc, you cannot get the warranty. Also, making imitated or altered products for commercial purposes are prohibited by law.
- Ⓢ During the usage, please contact us after any electricity power off when the product is overheated or smelled something burning.
- Ⓢ Keep the product away form water or moisture. If the product gets wet, do not turn it on.
- Ⓢ Do not use the product near strong magnetic fields or high voltage power lines.
The product might malfunction due to the electromagnetic waves.
- Ⓢ Do not use the product under a weather of lightning. It can cause the product malfunction and increases the risk of electric shock.
- Ⓢ Do not use the product with temperatures below 0°C or above 40°C.
(Operation temperature : 0°C ~ 40°C, Storage temperature : -10°C ~ 50°C)
- Ⓢ Do not keep the product near hot places such as heaters. Deterioration of product or internal damage might occur.
- Ⓢ Never clean the product with chemicla substances such as solvent, benzene or thinner, as these may Cause ignition or cause the surface deterioration.
- Ⓢ BT Inc. can change or adjust the product specification without any notice in order to improve the product.

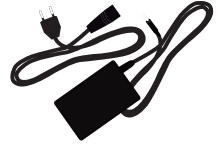
Components



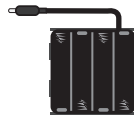
Adult Torso Manikin



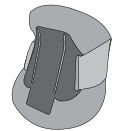
**Tablet PC
(Option)**



Power adapter



Battery Holder



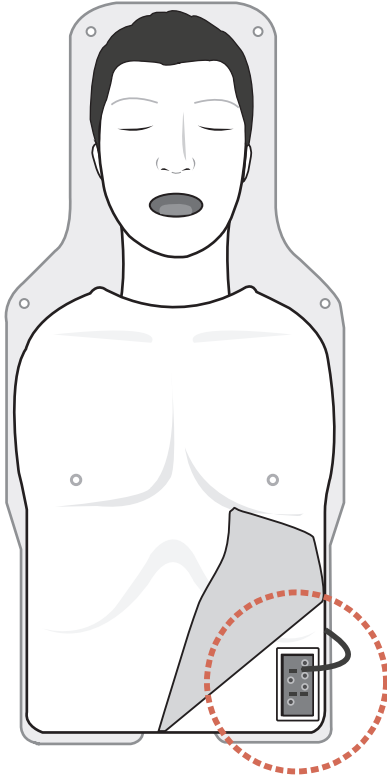
Cervical collar



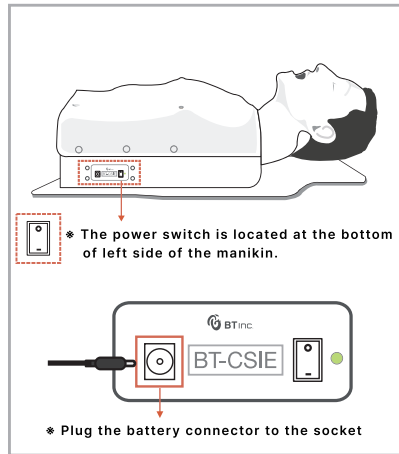
Lubricant

* Etc - Storage case, Skin fixing pin(8ea)

Insert / Replace Batteries



**Battery Holder
for 8 units of AA size Batteries**

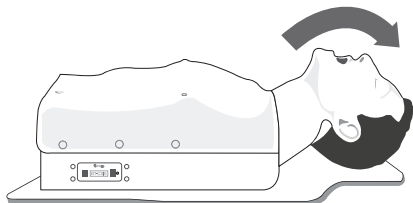


✳ The power switch is located at the bottom of left side of the manikin.

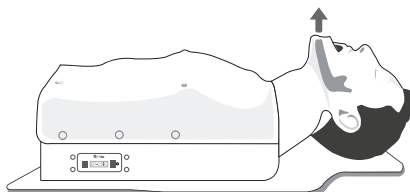
✳ Plug the battery connector to the socket

- ① Take off the skin, and pull out the battery holder which is located at the left side of manikin.
- ② Insert the 8 batteries with correct polarities.
- ③ Plug the battery connector into the socket at the left side of the manikin.

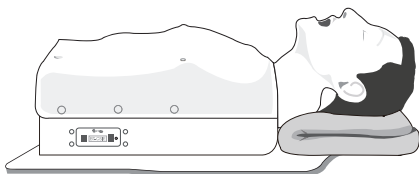
Basic Functions of Manikin



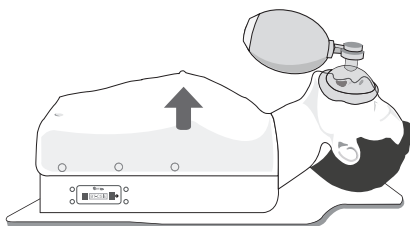
1. Head tilt



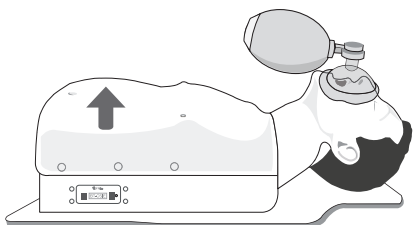
2. Jaw thrust maneuver



3. Sniffing position

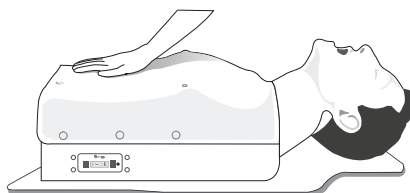


4. Ventilation with the bag valve mask



5. Gastric inflation

* The gastric inflation may happens by too strong, too much, too frequent ventilaion or esophageal intubation.



6. Deflation by hand

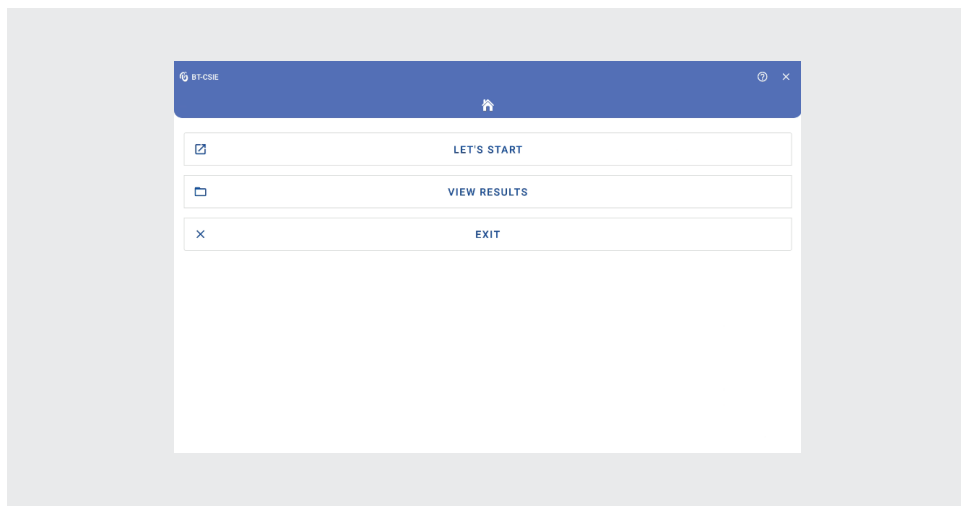
* If the gastric inflation happens, press the abdomen softly to discharge the air.

Software

1. Screen layout



2. Home (Main screen)

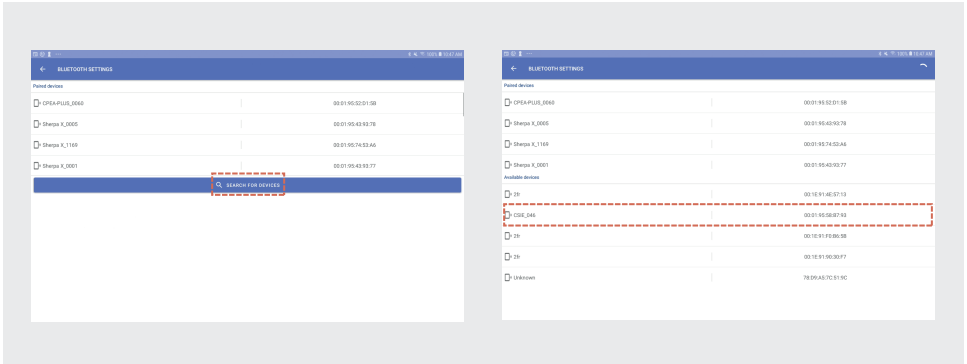


① LET'S START : You can select the ETT, LMA/I-GEL, COMBITUBE modes to practice airway management.

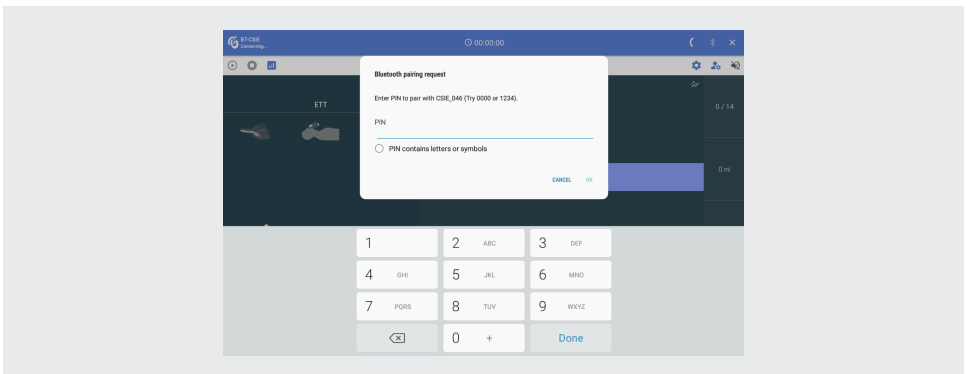
② VIEW RESULTS : Saved result can be seen in "View Results".


3. Bluetooth Connection

- Adult torso model and Tablet PC are connected via Bluetooth communication.
- Please refer to the procedure below for Bluetooth connection.



- ① First, check the manikin's power is on.
- ② Click the Bluetooth icon to make sure the pairing with device.
- ③ If devices are not paired, Select the device that user wants to connect from the pairing device list.



- ④ After selecting the device, enter the Pin Code as below.
 - * Pin Code : 56789
- ⑤ In the paired devices list, check the connection of the device.
- ⑥ Once connection is complete, the device & tablet PC will connect automatically.
 - * Reconnection Icon : 

4. Let's start










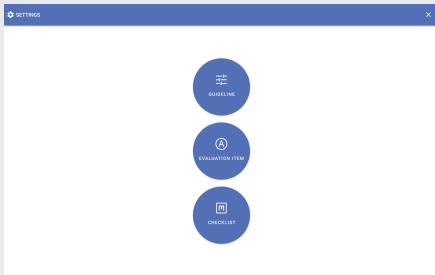
Ⓞ Mode selection



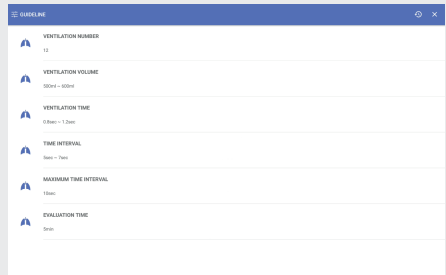
- 'ETT', 'LMA / I-GEL', 'COMBITUBE' modes are available.

Ⓞ Top bar icon

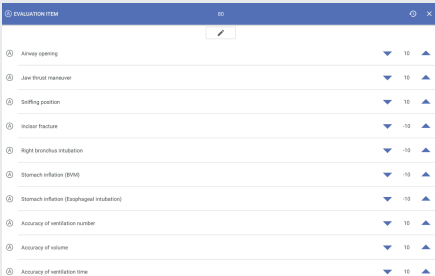
Icon	Description	Icon	Description
	Start Training		Stop Training
	View Result		Setting
	Sound feedback - Activated		Sound feedback - Inactivated
	Simulator Setting		



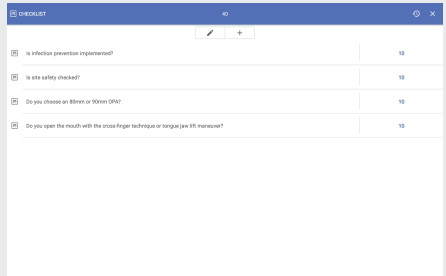
Setting



Guideline Setting



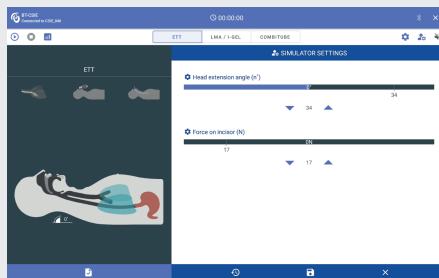
Evaluation Setting



Checklist Setting

- Setting :

- Guideline Setting : Editable guideline for ventilation.
- Evaluation Setting : Editable evaluation items and points.
- Checklist Setting : Editable checklist items and points.








Simulator Setting

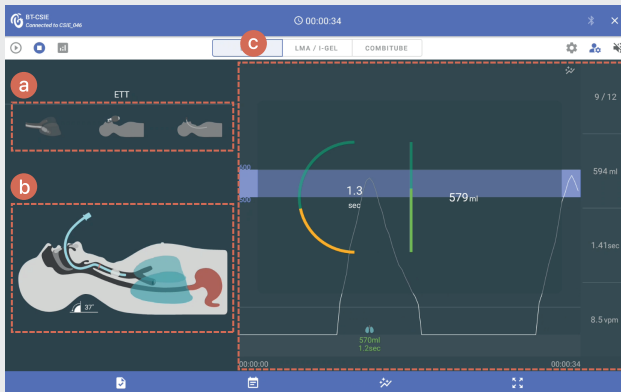
- Simulator Setting :

- Set the value of Head extension angle(n°) / Force on incisor (N)

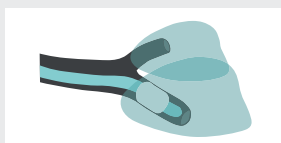
Ⓞ Bottom bar icon

Icon	Description	Icon	Description
	Checklist		History
	Line Graph		Bar Graph
	Full Screen		

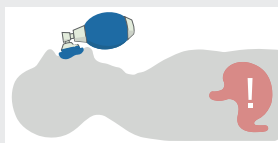
Ⓞ Training Screen



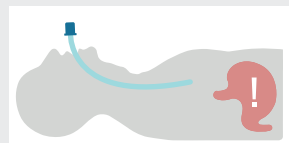
a. Wrong Intubation - Displaying right mainstem intubation, gastric inflation, esophageal intubation.



Right mainstem intubation

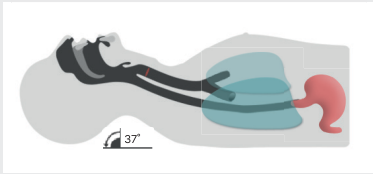


Gastric inflation by BVM

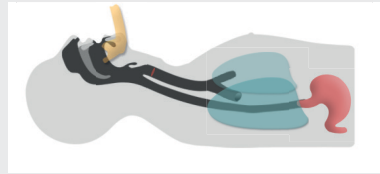


Esophageal intubation

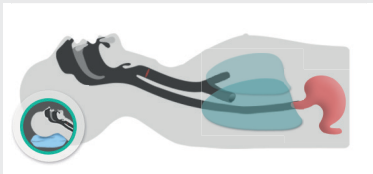
b. Training date is displayed in real time.



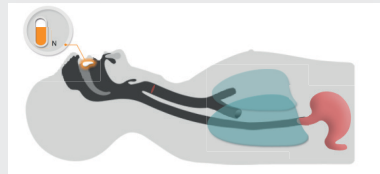
Head-tilt / Chin-lift maneuver



Jaw-thrust maneuver

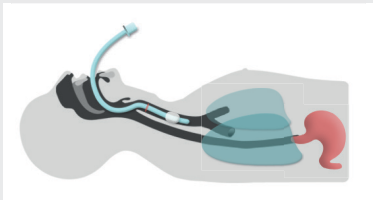


Sniffing position

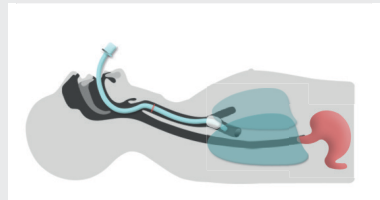


Force on incisor (N)

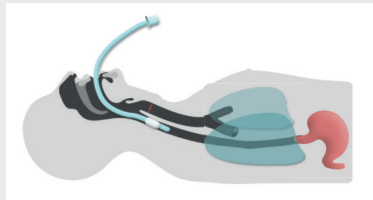
- ETT intubation



Correct ETT intubation

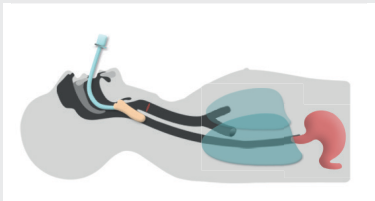


Right mainstem intubation

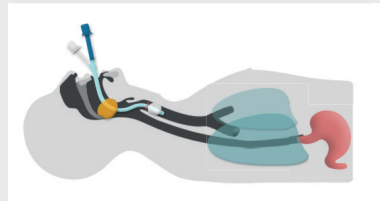


Esophageal intubation

- LMA / I-GEL & COMBITUBE intubation

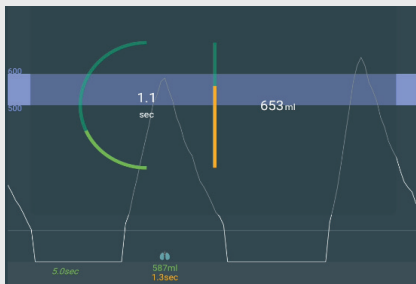


LMA / I-GEL intubation

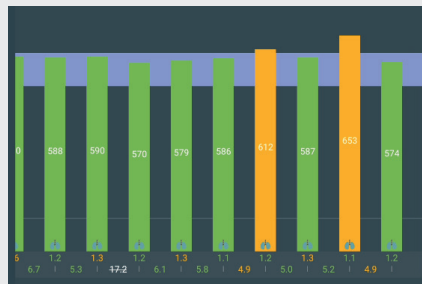


COMBITUBE intubation

c. Ventilation Graph



Line Graph



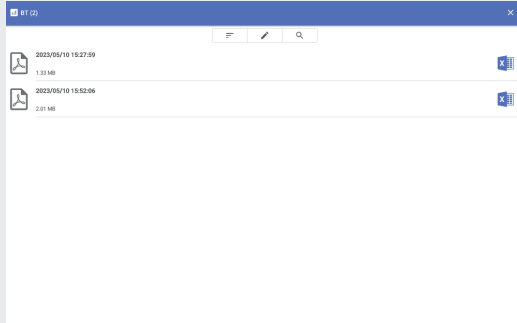
Bar Graph

- You can select the graph type (Line Graph / Bar Graph)
- Displaying ventilation number, ventilation time, time interval and etc.
- Training Screen icon

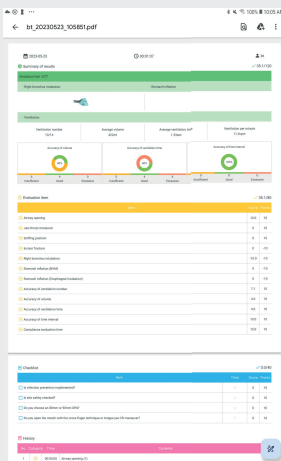
Icon	Description	Icon	Description
	Ventilation after correct ETT intubation		Ventilation after right mainstem intubation
	Ventilation with Bag-valve-mask		

5. View Results

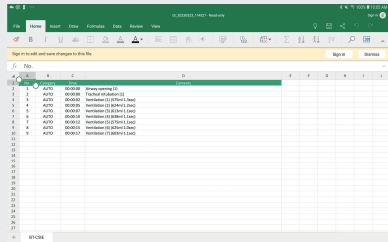
- Saved result can be seen in "View Results".



- ⓪ Save result can be sorted, edited and searched according to the folders of the trainee's name.



PDF



Excel

- ⓪ Click the file to see the result in PDF or Excel format.
- ⓪ Save result can be shared or transmitted to e-mail.

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